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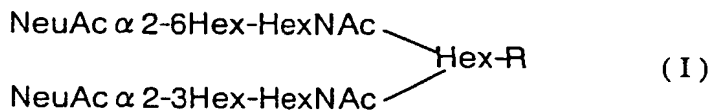
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のガイダンスノート」を参照。

(54) Title: NOVEL BRANCHED SIALO-SUGAR MOLECULES AND ANTIVIRAL AGENTS USING THE SAME

(54) 発明の名称: 新規分岐状シアロ糖分子とそれを用いたウイルス剤



(57) Abstract: It is intended to provide novel branched sialo-sugar molecules represented by the following general formula (I) as substances which respond to variations in the host area of influenza viruses as well as variations in antigenicity and are useful as adsorbents in drugs

and virus elimination filters whereby the infection with type A influenza virus and type B influenza virus originating in any animals including humans can be prevented: (I) wherein NeuAc represents N-acetylneuraminate in which the hydroxyl, carboxyl and amido may be chemically modified with halogeno, alkyl and acyl either identically or separately; Hex represents hexose; HexNAc represents N-acetylhexosamine; and R represents hydrogen, hydrocarbyl, a sugar chain, or a substrate selected from among lipids, proteins and synthetic polymers, each optionally being substituted; provided that the bond between N-acetylneuraminate and hexose may be either an O-glycoside bond occurring in nature or a chemically converted bond such as an S-glycoside or Se-glycoside bond.

[続葉有]

INTERNATIONAL SEARCH REPORT

International application No.  
PCT/JP03/02338

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C08B37/00, A61K31/715, A61P31/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C08B37/00, A61K31/715

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA (STN), REGISTRY (STN), WPIDS (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Van Pelt, Johannes; Hard, Karl; Kamerling Johannis P.; Vliegenthart, Johannes F.G.; Reuser, Arnold J. J.; Galjaard, Hans, Isolation and structural characterization of twenty-one sialyloligosaccharides from galactosialidosis urine. An intact N,N'-diacetylchitobiose unit at the reducing end of a diantennary structure, Biological Chemistry Hoppe-Seyler (1989), 370(3), 191-203	1,2

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/02338

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Strecker, Gerard; Peers, Marie Claire; Michalski, Jean Claude; Hondi-Assah, Theophile; Fournet, Bernard; Spik, Genevieve; Montreuil, Jean; Farriaux, Jean Pierre; Maroteaux, Pierre; Durand, Paolo, Structure of nine sialyl-oligosaccharides accumulated in urine of eleven patients with three different types of sialidosis. Mucopolipidosis II and two new types of mucopolipidosis, European Journal of Biochemistry (1977), 75(2), 391-403	1, 2 01b
A	Unverzagt, Garlo; Kelm, Soerge; Paulson, James C., Chemical and enzymic synthesis of multivalent sialoglycopeptides, Carbohydrate Research (1994), 251, 285-301	1-10